

In the claims:

Claims 1-16 cancelled.

17. (Currently amended) A device for sensing seismic and/or acoustic vibrations, comprising a body of a particulate material composed of a plurality of individual particles; and means for determining changes in electrical conductivity of the particulate material caused by seismic and acoustic vibrations, wherein said particles are not electrically conductive and are treated with an electrically conductive substance.

Claims 18-19 cancelled.

20. (Previously presented) A device as defined in claim 17, wherein said electrically conductive substance is a substance selected from the group consisting of fullerenes and nanotubes.

21. (Currently amended) A device for sensing seismic and/or acoustic vibrations, comprising a body of a particulate material composed of a plurality of individual non-conductive particles which are treated with an electrically conductive substance; means for determining changes in electrical conductivity of the particulate material caused by seismic and acoustic vibrations; and a casing which encloses said body of particulate

material, said casing being composed of a non electrically conductive material and has a plurality of ventilating perforations, said casing has an upper area which is not provided with said perforations, and a lower area provided with said perforations, so that said upper area of said casing is solid and water-impermeable to prevent excessive moisturizing of the particulate material by water from rain and melting snow.

22. (Previously presented) A device as defined in claim 21, wherein said casing is composed of a flexible material.

23. (Currently amended) A device for sensing seismic and/or acoustic vibrations, comprising a body of particulate material composed of a plurality of individual non-conductive particles treated with an electrically conductive substance; and means for determining changes in electrical conductivity of the particulate material caused by seismic and acoustic vibrations, said means including at least two electrodes arranged in contact with said body of said particulate material and spaced from one another; and means for determining voltage changes between the electrodes, said electrodes having a height substantially corresponding to a height of said body of said particulate material and a width substantially corresponding to a width of said body of said particulate material.

24. (Previously presented) A device as defined in claim 23, wherein each of said electrodes is composed of a plurality of electrode parts electrically connected with one another, said means further including a voltage source, an amplifier, an analog-digital convertor and a microcontroller.

25. (New) A device as defined in claim 17, wherein said non electrically conductive particles are composed of plastic.

26. (New) A device as defined in claim 23, wherein said non conductive particles are composed of plastic.

27. (New) A device as defined in claim 23, wherein said non conductive particles are composed of plastic